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Title: JP9330707A2: ROLLER FOR CLOSELY CONTACTING LITHIUM FOIL MANUFACTURE

Country: JP Japan

Kind: A

Inventor: TONOHARA KOUJI;

Assignee: FUJI PHOTO FILM CO LTD
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Published / Filed: 1997-12-22 / 1996-06-10

Application Number: JP1996000147330

IPC Code: H01M 4/08; H01M 4/04;

Priority Number: 1996-06-10 JP1996000147330

Abstract:

PROBLEM TO BE SOLVED: To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

SOLUTION: This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy electrode plate 26 continuously carried in an arrowed direction A in order to intermittently apply an active material to a hoop-like copper foil support body at fixed intervals and stick a lithium foil 28 which is a thin metal foil adhesive to metal to the surface of 26a at a prescribed pitch. A nip roller 40 is arranged on the other surface 26b of the electrode plate 26 in such a manner as to approach to and retreat from the surface 26b.

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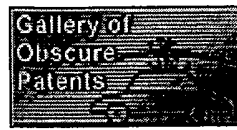
Family: None

Other Abstract Info: CHEMABS 128(07)077594R CAN128(07)077594R DERABS C98-107103 DERC98-107103



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(19)

(11) Publication number: **09**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **08147330**(51) Intl. Cl.: **H01M 4/08 H01M 4/04**(22) Application date: **10.06.96**

<p>(30) Priority:</p> <p>(43) Date of application publication: 22.12.97</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: FUJI PHOTO FILM CO</p> <p>(72) Inventor: TONOHARA KOUJI</p> <p>(74) Representative:</p>
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**(54) ROLLER FOR
CLOSELY CONTACTING
LITHIUM FOIL AND ITS
MANUFACTURE**

(57) Abstract:

PROBLEM TO BE SOLVED: To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

SOLUTION: This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy

electrode plate 26 continuously carried in an arrowed direction A in order to intermittently apply an active material to a hoop-like copper foil support body at fixed intervals and stick a lithium foil 28 which is a thin metal foil adhesive to metal to the surface of 26a at a prescribed pitch. A nip roller 40 is arranged on the other surface 26b of the electrode plate 26 in such a manner as to approach to and retreat from the surface 26b.

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